

**SYSTEM AND METHOD FOR MODELING VIDEO NETWORK
RELIABILITY**

ABSTRACT

A program product for modeling video network reliability includes a computer-usable medium that encodes computer instructions. The computer instructions cause a data processing system to perform modeling operations. Those operations include obtaining historical data for multiple video conferences, and
5 executing a modeling algorithm that produces a model representing the historical data. The model can be analyzed to identify opportunities for improving reliability of a video network. In an example embodiment, the computer instructions output results that a user can use reconfigure the video network for improved reliability. In another
10 embodiment, the computer instructions analyze the model to identify opportunities for improving reliability of the video network, and the computer instructions automatically reconfigure the video network, based on the identified opportunities. The modeling algorithm may be a decision tree algorithm, such as the ID3-based algorithm known as C4.5.